



Bruhat Bangalore Mahanagara Palike
Executive Engineer
Yelhanka Division

DETAILED ESTIMATE

NAME OF WORK: Improvements to drains and footpath at
Yelhanka new bus stand road in ward no 04

PROJECT COST: 92.70 Lakhs



Mecadez Core Technologies Private limited

Project Management and Consultancy Services

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BRUHAT BANAGLORE MAHANAGARA PALIKE

Executive Engineer-Yelhanka Division

Detailed Estimate

Name of Work: Improvements to drains and footpath at Yelhanka new bus stand road in ward no 04

Estimate Amount : 9270000.00

Sl. No	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amount in Rs
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CIVIL WORKS

1 Removing BS Slab of drain and Stacking (Page No 25., I.No.5.32 of KPWD S.R 2015-16).

Sqm

Existing Cover slab

16th b cross upto 1st A main-LHS

Ch: (0 - 90)

Deuction for Cross roads (40-35)+(67-60) = 12

Ch: (90 - 175)

Ch: (175 - 390)

Deuction for Cross roads (258-250) = 8

Ch: (390 - 420)

Deuction for Cross roads (409-402) = 7

Ch: (420 - 450)

Ch: (450 - 480)

Ch: (480 - 510)

Deuction for Cross roads (501-494) = 7

Ch: (510 - 540)

Ch: (540 - 690)

Deuction for Cross roads (671-664) = 7

Ch: (690 - 720)

Ch: (720 - 780)

Ch: (780 - 885)

Deuction for Cross roads (836-829) = 7

16th b cross from bus Stop to 13th A main-RHS

Ch: (0 - 78)

Deuction for Cross roads (67-57)+(78-71) = 17

Ch: (78 - 112)

Deuction for Cross roads (112-106) = 6

Sl. No	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amount in Rs
	Ch: (112 - 251)		1	139	1.20		166.80		
	Deuction for Cross roads (251-242) = 9		-1	9	1.20		-10.80		
	Ch: (251 - 300)		1	49	1.20		58.80		
	Deuction for Cross roads (300-296) = 4		-1	4	1.20		-4.80		
	Ch: (300 - 324)		1	24	1.00		24.00		
	Deuction for Cross roads (324-321) = 3		-1	3	1.00		-3.00		
	Ch: (324 - 347)		1	23	1.50		34.50		
	Deuction for Cross roads (347-342) = 5		-1	5	1.50		-7.50		
	Ch: (347 - 371)		1	24	1.20		28.80		
	Deuction for Cross roads (371-368) = 3		-1	3	1.20		-3.60		
	Ch: (371 - 442)		1	71	1.20		85.20		
	Deuction for Cross roads (442-438) = 4		-1	4	1.20		-4.80		
	Ch: (442 - 464)		1	22	1.20		26.40		
							1452.60	63.72	92559.67
2	Refixing Stone Slabs of drains and Pointing in C.M(1:3) (Page No 25., I.No.5.33 of KPWD S.R 2015-16).								
		Sqm							
	Existing Cover slab								
	16th b cross upto 1st A main-LHS								
	Ch: (0 - 90)		1	90	0.90		81.00		
	Deuction for Cross roads (40-35)+(67-60) = 12)		-1	12	0.90		-10.80		
	Ch: (90 - 175)		1	85	1.20		102.00		
	Ch: (175 - 390)		1	215	1.20		258.00		
	Deuction for Cross roads (258-250) = 8		-1	8	1.20		-9.60		
	Ch: (390 - 420)		1	30	1.20		36.00		
	Deuction for Cross roads (409-402) = 7		-1	7	1.20		-8.40		
	Ch: (420 - 450)		1	30	1.00		30.00		
	Ch: (450 - 480)		1	30	1.00		30.00		
	Ch: (480 - 510)		1	30	1.00		30.00		
	Deuction for Cross roads (501-494) = 7		-1	7	1.00		-7.00		
	Ch: (510 - 540)		1	30	1.20		36.00		
	Ch: (540 - 690)		1	150	1.20		180.00		

Sl. No	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amount in Rs
	Deduction for Cross roads (671-664) = 7		-1	7	1.20		-8.40		
	Ch: (690 - 720)		1	30	0.90		27.00		
	Ch: (720 - 780)		1	60	1.30		78.00		
	Ch: (780 - 885)		1	105	1.20		126.00		
	Deduction for Cross roads (836-829) = 7		-1	7	1.20		-8.40		
	16th b cross from bus Stop to 13th A main-RHS								
	Ch: (0 - 78)		1	78	1.20		93.60		
	Deduction for Cross roads (67-57)+(78-71) = 17		-1	17	1.20		-20.40		
	Ch: (78 - 112)		1	34	1.00		34.00		
	Deduction for Cross roads (112-106) = 6		-1	6	1.00		-6.00		
	Ch: (112 - 251)		1	139	1.20		166.80		
	Deduction for Cross roads (251-242) = 9		-1	9	1.20		-10.80		
	Ch: (251 - 300)		1	49	1.20		58.80		
	Deduction for Cross roads (300-296) = 4		-1	4	1.20		-4.80		
	Ch: (300 - 324)		1	24	1.00		24.00		
	Deduction for Cross roads (324-321) = 3		-1	3	1.00		-3.00		
	Ch: (324 - 347)		1	23	1.50		34.50		
	Deduction for Cross roads (347-342) = 5		-1	5	1.50		-7.50		
	Ch: (347 - 371)		1	24	1.20		28.80		
	Deduction for Cross roads (371-368) = 3		-1	3	1.20		-3.60		
	Ch: (371 - 442)		1	71	1.20		85.20		
	Deduction for Cross roads (442-438) = 4		-1	4	1.20		-4.80		
	Ch: (442 - 464)		1	22	1.20		26.40		
	Deduction for damaged 20%						1452.60		
							-290.52		
3	Providing precast slab of 100 mm thick including cost of all materials, labour, curing, transportation, loading, unloading, etc., complete as per the direction of engineer in charge- Data rate						1162.08	78.84	91618.39
	For Shoulder Drains slab	Sqm							
	16th b cross upto 1st A main-LHS								

Sl. No	Part	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amount in Rs
	Ch: (0 - 90)		5	3.60	0.60		10.80		
	for Cross roads (40-35)+(67-60) = 12)								
	Ch: (90 - 175)		6	3.10	0.60		11.16		
	Ch: (175 - 390)		14	3.20	0.60		26.88		
	for Cross roads (258-250) = 8								
	Ch: (390 - 420)		2	3.90	0.60		4.68		
	for Cross roads (409-402) = 7								
	Ch: (420 - 450)		2	3.90	0.60		4.68		
	Ch: (450 - 480)		2	3.90	0.60		4.68		
	Ch: (480 - 510)		2	4.20	0.60		5.04		
	for Cross roads (501-494) = 7								
	Ch: (510 - 540)		2	4.20	0.60		5.04		
	Ch: (540 - 690)		10	4.00	0.60		24.00		
	for Cross roads (671-664) = 7								
	Ch: (690 - 720)		2	3.80	0.60		4.56		
	Ch: (720 - 780)		4	3.60	0.60		8.64		
	Ch: (780 - 885)		7	3.50	0.60		14.70		
	for Cross roads (836-829) = 7								
	16th b cross from bus Stop to 13th A main-RHS								
	Ch: (0 - 78)		4	3.60	0.60		8.64		
	for Cross roads (67-57)+(78-71) = 17)								
	Ch: (78 - 112)		2	2.30	0.60		2.76		
	for Cross roads (112-106) = 6								
	Ch: (112 - 251)		9	2.70	0.60		14.58		
	for Cross roads (251-242) = 9								
	Ch: (251 - 300)		3	3.60	0.60		6.48		
	for Cross roads (300-296) = 4								
	Ch: (300 - 324)		1	3.50	0.60		2.10		
	for Cross roads (324-321) = 3								
	Ch: (324 - 347)		1	5.00	0.60		3.00		
	for Cross roads (347-342) = 5								
	Ch: (347 - 371)		1	3.40	0.60		2.04		
	for Cross roads (371-368) = 3								
	Ch: (371 - 442)		4	4.60	0.60		11.04		
	for Cross roads (442-438) = 4								

Sl. No	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amount in Rs
	Ch: (442 - 464)		1	3.50	0.60		2.10		
	for damaged 20%								
							290.52		
							468.12	1834.00	858532.08
4	KSRB 4-1.2 : Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 (Page No 12., 1.No.4.2 of KPWD S.R 2015-16).								
		Sqm							
	16th b cross upto 1st A main-LHS								
	Ch: (0 - 90)		1	90	2.60	0.100	23.40		
	Deduction for Cross roads (40-35)+(67-60) = 12)		-1	12	2.60	0.100	-3.12		
	Ch: (90 - 175)		1	85	2.10	0.100	17.85		
	Ch: (175 - 390)		1	215	2.20	0.100	47.30		
	Deduction for Cross roads (258-250) = 8		-1	8	2.20	0.100	-1.76		
	Ch: (390 - 420)		1	30	2.90	0.100	8.70		
	Deduction for Cross roads (409-402) = 7		-1	7	2.90	0.100	-2.03		
	Ch: (420 - 450)		1	30	2.90	0.100	8.70		
	Ch: (450 - 480)		1	30	2.90	0.100	8.70		
	Ch: (480 - 510)		1	30	3.20	0.100	9.60		
	Deduction for Cross roads (501-494) = 7		-1	7	3.20	0.100	-2.24		
	Ch: (510 - 540)		1	30	3.20	0.100	9.60		
	Ch: (540 - 690)		1	150	3.00	0.100	45.00		
	Deduction for Cross roads (671-664) = 7		-1	7	3.00	0.100	-2.10		
	Ch: (690 - 720)		1	30	2.80	0.100	8.40		
	Ch: (720 - 780)		1	60	2.60	0.100	15.60		
	Ch: (780 - 885)		1	105	2.50	0.100	26.25		
	Deduction for Cross roads (836-829) = 7		-1	7	2.50	0.100	-1.75		
	16th b cross from bus Stop to 13th A main-RHS								
	Ch: (0 - 78)		1	78	2.60	0.100	20.28		
	Deduction for Cross roads (67-57)+(78-71) = 17)		-1	17	2.60	0.100	-4.42		
	Ch: (78 - 112)		1	34	1.30	0.100	4.42		
	Deduction for Cross roads (112-106) = 6		-1	6	1.30	0.100	-0.78		

Sl. No	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amount in Rs
	Ch: (112 - 251)		1	139	1.70	0.100	23.63		
	Deuction for Cross roads (251-242) = 9		-1	9	1.70	0.100	-1.53		
	Ch: (251 - 300)		1	49	2.60	0.100	12.74		
	Deuction for Cross roads (300-296) = 4		-1	4	2.60	0.100	-1.04		
	Ch: (300 - 324)		1	24	2.50	0.100	6.00		
	Deuction for Cross roads (324-321) = 3		-1	3	2.50	0.100	-0.75		
	Ch: (324 - 347)		1	23	4.00	0.100	9.20		
	Deuction for Cross roads (347-342) = 5		-1	5	4.00	0.100	-2.00		
	Ch: (347 - 371)		1	24	2.40	0.100	5.76		
	Deuction for Cross roads (371-368) = 3		-1	3	2.40	0.100	-0.72		
	Ch: (371 - 442)		1	71	3.60	0.100	25.56		
	Deuction for Cross roads (442-438) = 4		-1	4	3.60	0.100	-1.44		
	Ch: (442 - 464)		1	22	2.50	0.100	5.50		
	For Shoulder Drains PCC								
	16th b cross upto 1st A main-LHS								
	Ch: (0 - 90)		5	3.60	0.60	0.100	1.08		
	for Cross roads (40-35)+(67-60) = 12)								
	Ch: (90 - 175)		6	3.10	0.60	0.100	1.12		
	Ch: (175 - 390)		14	3.20	0.60	0.100	2.69		
	for Cross roads (258-250) = 8								
	Ch: (390 - 420)		2	3.90	0.60	0.100	0.47		
	for Cross roads (409-402) = 7								
	Ch: (420 - 450)		2	3.90	0.60	0.100	0.47		
	Ch: (450 - 480)		2	3.90	0.60	0.100	0.47		
	Ch: (480 - 510)		2	4.20	0.60	0.100	0.50		
	for Cross roads (501-494) = 7								
	Ch: (510 - 540)		2	4.20	0.60	0.100	0.50		
	Ch: (540 - 690)		10	4.00	0.60	0.100	2.40		
	for Cross roads (671-664) = 7								
	Ch: (690 - 720)		2	3.80	0.60	0.100	0.46		
	Ch: (720 - 780)		4	3.60	0.60	0.100	0.86		
	Ch: (780 - 885)		7	3.50	0.60	0.100	1.47		
	for Cross roads (836-829) = 7								

Sl. No	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amount in Rs
	16th b cross from bus Stop to 13th A main-RHS								
	Ch: (0 - 78)		4	3.60	0.60	0.100	0.86		
	for Cross roads (67-57)+(78-71) = 17)								
	Ch: (78 - 112)		2	2.30	0.60	0.100	0.28		
	for Cross roads (112-106) = 6								
	Ch: (112 - 251)		9	2.70	0.60	0.100	1.46		
	for Cross roads (251-242) = 9								
	Ch: (251 - 300)		3	3.60	0.60	0.100	0.65		
	for Cross roads (300-296) = 4								
	Ch: (300 - 324)		1	3.50	0.60	0.100	0.21		
	for Cross roads (324-321) = 3								
	Ch: (324 - 347)		1	5.00	0.60	0.100	0.30		
	for Cross roads (347-342) = 5								
	Ch: (347 - 371)		1	3.40	0.60	0.100	0.20		
	for Cross roads (371-368) = 3								
	Ch: (371 - 442)		4	4.60	0.60	0.100	1.10		
	for Cross roads (442-438) = 4								
	Ch: (442 - 464)		1	3.50	0.60	0.100	0.21		
							334.27	5236.92	1750545.25
5	KSRB 5-14 : Providing and constructing precast concrete solid blocks with compressive strength not less than 35 Kg/sqm with cement mortar 1:4 masonry (quoin, Jamb, closer blocks) with solid concrete blocks of size 40x10x20cms conforming to I.S: 2185/1965 in superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications. (Page No 25., I.No.5.28 of KPWD S.R 2015-16).								
		Sqm							
	For Shoulder Drains								
	16th b cross upto 1st A main-LHS								
	Ch: (0 - 90)		10	3.60		0.400	14.40		
	for Cross roads (40-35)+(67-60) = 12)								
	Ch: (90 - 175)		12	3.10		0.400	14.88		
	Ch: (175 - 390)		28	3.20		0.400	35.84		
	for Cross roads (258-250) = 8								
	Ch: (390 - 420)		4	3.90		0.400	6.24		
	for Cross roads (409-402) = 7								
	Ch: (420 - 450)		4	3.90		0.400	6.24		
	Ch: (450 - 480)		4	3.90		0.400	6.24		

Sl. No	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amount in Rs
	Ch: (480 - 510)		4	4.20		0.400	6.72		
	for Cross roads (501-494) = 7								
	Ch: (510 - 540)		4	4.20		0.400	6.72		
	Ch: (540 - 690)		20	4.00		0.400	32.00		
	for Cross roads (671-664) = 7								
	Ch: (690 - 720)		4	3.80		0.400	6.08		
	Ch: (720 - 780)		8	3.60		0.400	11.52		
	Ch: (780 - 885)		14	3.50		0.400	19.60		
	for Cross roads (836-829) = 7								
	16th b cross from bus Stop to 13th A main-RHS								
	Ch: (0 - 78)		8	3.60		0.400	11.52		
	for Cross roads (67-57)+(78-71) = 17								
	Ch: (78 - 112)		4	2.30		0.400	3.68		
	for Cross roads (112-106) = 6								
	Ch: (112 - 251)		18	2.70		0.400	19.44		
	for Cross roads (251-242) = 9								
	Ch: (251 - 300)		6	3.60		0.400	8.64		
	for Cross roads (300-296) = 4								
	Ch: (300 - 324)		2	3.50		0.400	2.80		
	for Cross roads (324-321) = 3								
	Ch: (324 - 347)		2	5.00		0.400	4.00		
	for Cross roads (347-342) = 5								
	Ch: (347 - 371)		2	3.40		0.400	2.72		
	for Cross roads (371-368) = 3								
	Ch: (371 - 442)		8	4.60		0.400	14.72		
	for Cross roads (442-438) = 4								
	Ch: (442 - 464)		2	3.50		0.400	2.80		
	For lateral support								
	16th b cross upto 1st A main-LHS								
	Ch: (0 - 90)		1	78.00		0.200	15.60		
	for Cross roads (40-35)+(67-60) = 12								
	Ch: (90 - 175)		1	85.00		0.200	17.00		
	Ch: (175 - 390)		1	207.00		0.200	41.40		
	for Cross roads (258-250) = 8								
	Ch: (390 - 420)		1	23.00		0.200	4.60		

Sl. No	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in	Amount Rs
	for Cross roads (409-402) = 7								
	Ch: (420 - 450)		1	30.00		0.200	6.00		
	Ch: (450 - 480)		1	30.00		0.200	6.00		
	Ch: (480 - 510)		1	23.00		0.200	4.60		
	for Cross roads (501-494) = 7								
	Ch: (510 - 540)		1	30.00		0.200	6.00		
	Ch: (540 - 690)		1	143.00		0.200	28.60		
	for Cross roads (671-664) = 7								
	Ch: (690 - 720)		1	30.00		0.200	6.00		
	Ch: (720 - 780)		1	60.00		0.200	12.00		
	Ch: (780 - 885)		1	98.00		0.200	19.60		
	for Cross roads (836-829) = 7								
	16th b cross from bus Stop to 13th A main-RHS								
	Ch: (0 - 78)		1	61.00		0.200	12.20		
	for Cross roads (67-57)+(78-71) = 17)								
	Ch: (78 - 112)		1	28.00		0.200	5.60		
	for Cross roads (112-106) = 6								
	Ch: (112 - 251)		1	130.00		0.200	26.00		
	for Cross roads (251-242) = 9								
	Ch: (251 - 300)		1	45.00		0.200	9.00		
	for Cross roads (300-296) = 4								
	Ch: (300 - 324)		1	21.00		0.200	4.20		
	for Cross roads (324-321) = 3								
	Ch: (324 - 347)		1	18.00		0.200	3.60		
	for Cross roads (347-342) = 5								
	Ch: (347 - 371)		1	21.00		0.200	4.20		
	for Cross roads (371-368) = 3								
	Ch: (371 - 442)		1	67.00		0.200	13.40		
	for Cross roads (442-438) = 4								
	Ch: (442 - 464)		1	22.00		0.200	4.40		
							486.80	743.04	361711.87
6	Providing and laying/fixing cement base, precast, pre polished cement concrete, designer tiles 25mm thick conforming to IS 1237 heavy duty tiles for flooring, treads of steps and landing, laid on a bed of 12mm thick cement mortar 1:3 mis finished with flush pointing using white cement, including cost of materials, including cutting, griding the edge to half/full round wherever required, labour, curing complete as per specification. (Page No 109, I.No.14.62 of KPWD S.R 2015-16).								

Sl. No	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amount in Rs
		Sqm							
	16th b cross upto 1st A main-LHS								
	Ch: (0 - 90)		1	90	2.60		234.00		
	Deuction for Cross roads (40-35)+(67-60) = 12)		-1	12	2.60		-31.20		
	Ch: (90 - 175)		1	85	2.10		178.50		
	Ch: (175 - 390)		1	215	2.20		473.00		
	Deuction for Cross roads (258-250) = 8		-1	8	2.20		-17.60		
	Ch: (390 - 420)		1	30	2.90		87.00		
	Deuction for Cross roads (409-402) = 7		-1	7	2.90		-20.30		
	Ch: (420 - 450)		1	30	2.90		87.00		
	Ch: (450 - 480)		1	30	2.90		87.00		
	Ch: (480 - 510)		1	30	3.20		96.00		
	Deuction for Cross roads (501-494) = 7		-1	7	3.20		-22.40		
	Ch: (510 - 540)		1	30	3.20		96.00		
	Ch: (540 - 690)		1	150	3.00		450.00		
	Deuction for Cross roads (671-664) = 7		-1	7	3.00		-21.00		
	Ch: (690 - 720)		1	30	2.80		84.00		
	Ch: (720 - 780)		1	60	2.60		156.00		
	Ch: (780 - 885)		1	105	2.50		262.50		
	Deuction for Cross roads (836-829) = 7		-1	7	2.50		-17.50		
	16th b cross from bus Stop to 13th A main-RHS								
	Ch: (0 - 78)		1	78	2.60		202.80		
	Deuction for Cross roads (67-57)+(78-71) = 17)		-1	17	2.60		-44.20		
	Ch: (78 - 112)		1	34	1.30		44.20		
	Deuction for Cross roads (112-106) = 6		-1	6	1.30		-7.80		
	Ch: (112 - 251)		1	139	1.70		236.30		
	Deuction for Cross roads (251-242) = 9		-1	9	1.70		-15.30		
	Ch: (251 - 300)		1	49	2.60		127.40		
	Deuction for Cross roads (300-296) = 4		-1	4	2.60		-10.40		
	Ch: (300 - 324)		1	24	2.50		60.00		

Sl. No	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amount in Rs
	Deuction for Cross roads (324-321) = 3		-1	3	2.50		-7.50		
	Ch: (324 - 347)		1	23	4.00		92.00		
	Deuction for Cross roads (347-342) = 5		-1	5	4.00		-20.00		
	Ch: (347 - 371)		1	24	2.40		57.60		
	Deuction for Cross roads (371-368) = 3		-1	3	2.40		-7.20		
	Ch: (371 - 442)		1	71	3.60		255.60		
	Deuction for Cross roads (442-438) = 4		-1	4	3.60		-14.40		
	Ch: (442 - 464)		1	22	2.50		55.00		
							3165.10	1137.24	3599478.32
7	KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 1.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 (Page No141., I.No.19.1 of KPWD S.R 2015-16).								
		Cum							
	Desilting								
	16th b cross upto 1st A main-LHS								
	Ch: (0 - 90)		1	90	0.60	0.700	37.80		
	Ch: (90 - 175)		1	85	0.60	0.700	35.70		
	Ch: (175 - 390)		1	215	0.60	0.700	90.30		
	Ch: (390 - 420)		1	30	0.60	0.700	12.60		
	Ch: (420 - 450)		1	30	0.60	0.700	12.60		
	Ch: (450 - 480)		1	30	0.60	0.700	12.60		
	Ch: (480 - 510)		1	30	0.60	0.700	12.60		
	Ch: (510 - 540)		1	30	0.60	0.700	12.60		
	Ch: (540 - 690)		1	150	0.60	0.700	63.00		
	Ch: (690 - 720)		1	30	0.60	0.700	12.60		
	Ch: (720 - 780)		1	60	0.60	0.700	25.20		
	Ch: (780 - 885)		1	105	0.60	0.700	44.10		
	16th b cross from bus Stop to 13th A main-RHS								
	Ch: (0 - 78)		1	78	0.60	0.700	32.76		
	Ch: (78 - 112)		1	34	0.60	0.700	14.28		
	Ch: (112 - 251)		1	139	0.60	0.700	58.38		
	Ch: (251 - 300)		1	49	0.60	0.700	20.58		
	Ch: (300 - 324)		1	24	0.60	0.700	10.08		
	Ch: (324 - 347)		1	23	0.60	0.700	9.66		
	Ch: (347 - 371)		1	24	0.60	0.700	10.08		
	Ch: (371 - 442)		1	71	0.60	0.700	29.82		
	Ch: (442 - 464)		1	22	0.60	0.700	9.24		

Sl. No	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amount in Rs
							566.58	177.88	100783.25
8	KSRB 5.2-3. Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6, stone hammered dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 (Page No 23., I.No.5.6 of KPWD S.R 2015-16).								
		Cum							
	Damaged Portion								
	16th b cross upto 1st A main-LHS								
	Ch: (0 - 885)		2	170	0.45	0.250	38.25		
	16th b cross from bus Stop to 13th A main-RHS								
	Ch: (0 - 464)		2	100	0.45	0.250	22.50		
							60.75	4135.32	251220.69
9	1 KSRB 15.1.1 Providing flush pointing to square rubble, course or uncoursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. (Page No 112., I.No.15.1 of KPWD S.R 2015-16).								
		Sqm							
	Damaged Portion								
	16th b cross upto 1st A main-LHS								
	Ch: (0 - 885)		2	170		0.250	85.00		
	16th b cross from bus Stop to 13th A main-RHS								
	Ch: (0 - 464)		2	100		0.250	50.00		
							135.00	99.36	13413.60
10	KSRB 4-1.6 ; Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregates @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 (Page No 12., I.No.4.6 of KPWD S.R 2015-16).								
		Sqm							
	For Shoulder Drains coping								
	16th b cross upto 1st A main-LHS								
	Ch: (0 - 90)		10	3.60	0.10	0.075	0.27		
	for Cross roads (40-35)+(67-60) = 12)								
	Ch: (90 - 175)		12	3.10	0.10	0.075	0.28		
	Ch: (175 - 390)		28	3.20	0.10	0.075	0.67		
	for Cross roads (258-250) = 8								
	Ch: (390 - 420)		4	3.90	0.10	0.075	0.12		
	for Cross roads (409-402) = 7								
	Ch: (420 - 450)		4	3.90	0.10	0.075	0.12		
	Ch: (450 - 480)		4	3.90	0.10	0.075	0.12		

SL No	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amount in Rs
	Ch: (480 - 510)		4	4.20	0.10	0.075	0.13		
	for Cross roads (501-494) = 7								
	Ch: (510 - 540)		4	4.20	0.10	0.075	0.13		
	Ch: (540 - 690)		20	4.00	0.10	0.075	0.60		
	for Cross roads (671-664) = 7								
	Ch: (690 - 720)		4	3.80	0.10	0.075	0.11		
	Ch: (720 - 780)		8	3.60	0.10	0.075	0.22		
	Ch: (780 - 885)		14	3.50	0.10	0.075	0.37		
	for Cross roads (836-829) = 7								
	16th b cross from bus Stop to 13th A main-RHS								
	Ch: (0 - 78)		8	3.60	0.10	0.075	0.22		
	for Cross roads (67-57)+(78-71) = 17)								
	Ch: (78 - 112)		4	2.30	0.10	0.075	0.07		
	for Cross roads (112-106) = 6								
	Ch: (112 - 251)		18	2.70	0.10	0.075	0.36		
	for Cross roads (251-242) = 9								
	Ch: (251 - 300)		6	3.60	0.10	0.075	0.16		
	for Cross roads (300-296) = 4								
	Ch: (300 - 324)		2	3.50	0.10	0.075	0.05		
	for Cross roads (324-321) = 3								
	Ch: (324 - 347)		2	5.00	0.10	0.075	0.08		
	for Cross roads (347-342) = 5								
	Ch: (347 - 371)		2	3.40	0.10	0.075	0.05		
	for Cross roads (371-368) = 3								
	Ch: (371 - 442)		8	4.60	0.10	0.075	0.28		
	for Cross roads (442-438) = 4								
	Ch: (442 - 464)		2	3.50	0.10	0.075	0.05		
	Packing concrete								
	16th b cross upto 1st A main-LHS								
	Ch: (0 - 90)		1	90	0.15	0.150	2.03		
	Deuction for Cross roads (40-35)+(67-60) = 12)		-1	12	0.15	0.150	-0.27		
	Ch: (90 - 175)		1	85	0.15	0.150	1.91		
	Ch: (175 - 390)		1	215	0.15	0.150	4.84		
	Deuction for Cross roads (258-250) = 8		-1	8	0.15	0.150	-0.18		
	Ch: (390 - 420)		1	30	0.15	0.150	0.68		

Sl. No	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amount in Rs
	Deuction for Cross roads (409-402) = 7		-1	7	0.15	0.150	-0.16		
	Ch: (420 - 450)		1	30	0.15	0.150	0.68		
	Ch: (450 - 480)		1	30	0.15	0.150	0.68		
	Ch: (480 - 510)		1	30	0.15	0.150	0.68		
	Deuction for Cross roads (501-494) = 7		-1	7	0.15	0.150	-0.16		
	Ch: (510 - 540)		1	30	0.15	0.150	0.68		
	Ch: (540 - 690)		1	150	0.15	0.150	3.38		
	Deuction for Cross roads (671-664) = 7		-1	7	0.15	0.150	-0.16		
	Ch: (690 - 720)		1	30	0.15	0.150	0.68		
	Ch: (720 - 780)		1	60	0.15	0.150	1.35		
	Ch: (780 - 885)		1	105	0.15	0.150	2.36		
	Deuction for Cross roads (836-829) = 7		-1	7	0.15	0.150	-0.16		
	16th b cross from bus Stop to 13th A main-RHS								
	Ch: (0 - 78)		1	78	0.10	0.150	1.17		
	Deuction for Cross roads (67-57)+(78-71) = 17)		-1	17	0.10	0.150	-0.26		
	Ch: (78 - 112)		1	34	0.10	0.150	0.51		
	Deuction for Cross roads (112-106) = 6		-1	6	0.10	0.150	-0.09		
	Ch: (112 - 251)		1	139	0.10	0.150	2.09		
	Deuction for Cross roads (251-242) = 9		-1	9	0.10	0.150	-0.14		
	Ch: (251 - 300)		1	49	0.10	0.150	0.74		
	Deuction for Cross roads (300-296) = 4		-1	4	0.10	0.150	-0.06		
	Ch: (300 - 324)		1	24	0.10	0.150	0.36		
	Deuction for Cross roads (324-321) = 3		-1	3	0.10	0.150	-0.05		
	Ch: (324 - 347)		1	23	0.10	0.150	0.35		
	Deuction for Cross roads (347-342) = 5		-1	5	0.10	0.150	-0.08		
	Ch: (347 - 371)		1	24	0.10	0.150	0.36		
	Deuction for Cross roads (371-368) = 3		-1	3	0.10	0.150	-0.05		
	Ch: (371 - 442)		1	71	0.10	0.150	1.07		
	Deuction for Cross roads (442-438) = 4		-1	4	0.10	0.150	-0.06		

Sl. No	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amount in Rs
	Ch: (442 - 464)		1	22	0.10	0.150	0.33		
	Damaged Portion-coping								
	16th b cross upto 1st A main-LHS								
	Ch: (0 - 885)		2	170	0.45	0.075	11.48		
	16th b cross from bus Stop to 13th A main-RHS								
	Ch: (0 - 464)		2	100	0.45	0.075	6.75		
							47.69	5490.72	261866.16
11	Removing and resetting of kerb stones (Page No 258., I.No.37.57 of KPWD S.R 2015-16).								
		m							
	16th b cross upto 1st A main-LHS								
	Ch: (0 - 90)		1	90			90.00		bs
	Deduction for Cross roads (40-35)+(67-60) = 12)		-1	12			-12.00		
	Ch: (90 - 175)		1	85			85.00		cc
	Ch: (175 - 390)		1	215			215.00		
	Deduction for Cross roads (258-250) = 8		-1	8			-8.00		
	Ch: (390 - 420)		1	30			30.00		
	Deduction for Cross roads (409-402) = 7		-1	7			-7.00		
	Ch: (420 - 450)		1	30			30.00		
	Ch: (450 - 480)		1	30			30.00		
	Ch: (480 - 510)		1	30			30.00		
	Deduction for Cross roads (501-494) = 7		-1	7			-7.00		
	Ch: (510 - 540)		1	30			30.00		
	Ch: (540 - 690)		1	150			150.00		
	Deduction for Cross roads (671-664) = 7		-1	7			-7.00		
	Ch: (690 - 720)		1	30			30.00		
	Ch: (720 - 780)		1	60			60.00		
	Ch: (780 - 885)		1	105			105.00		
	Deduction for Cross roads (836-829) = 7		-1	7			-7.00		
	16th b cross from bus Stop to 13th A main-RHS								
	Ch: (0 - 78)		1	78			78.00		
	Deduction for Cross roads (67-57)+(78-71) = 17)		-1	17			-17.00		
	Ch: (78 - 112)		1	34			34.00		

Sl. No	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amount in Rs
	Deduction for Cross roads (112-106) = 6		-1	6			-6.00		
	Ch: (112 - 251)		1	139			139.00		
	Deduction for Cross roads (251-242) = 9		-1	9			-9.00		
	Ch: (251 - 300)		1	49			49.00		
	Deduction for Cross roads (300-296) = 4		-1	4			-4.00		
	Ch: (300 - 324)		1	24			24.00		
	Deduction for Cross roads (324-321) = 3		-1	3			-3.00		
	Ch: (324 - 347)		1	23			23.00		
	Deduction for Cross roads (347-342) = 5		-1	5			-5.00		
	Ch: (347 - 371)		1	24			24.00		
	Deduction for Cross roads (371-368) = 3		-1	3			-3.00		
	Ch: (371 - 442)		1	71			71.00		
	Deduction for Cross roads (442-438) = 4		-1	4			-4.00		
	Ch: (442 - 464)		1	22			22.00		
							1250.00		
	Deduction for damaged 50%						-625.00		
							625.00	63.72	39825.00
12	Providing and fixing pre cast solid cement concrete kerb stones made out of C.C. 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including formwork, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc., complete. (Page No 25., I.No.5.30 of KPWD S.R 2015-16).								
		Nos							
	For Damaged portion		1	625			1389.00		
							1389.00	320.76	445535.64
13	Providing and fixing M.S Hand railing for Balcony Staircase etc with 50mm dia .M.S.hollow pipe of 14 gauge welded to 20mm x20mm M.s Square rod placed vertically spaced at 100 mm at regular intervals of 600mm these vertical rods laterally tied to 3 horizontal rods spaced at equal interval these assembly is fixed to concrete by using expansion bolts and welding the same to reinforcement bars and making good the grinded wherever necessary etc., complete .The work includes cost of all materials , labour charges for all items of work, hire charges for welding cutting and grinding equipment and electricity charges ,etc complete as per specification and drawings (Page No 42., I.No.7.35 of KPWD S.R 2015-16).								
		Sqm							
	16th b cross upto 1st A main		1	365		1.20	438.00		
							438.00	2933.28	1284776.64
ROAD FURNITURES									

SL No	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amount in Rs
13	KSRGS 800-1. Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 (Page No 179, I.No.24.1 of KPWD S.R 2015-16).								
	Kerb Painting	Sqm							
	14th b cross upto 1st A main-LHS								
	Ch: (0 - 90)		1	90		0.300	27.00		bs
	Deduction for Cross roads (40-35)+(67-60) = 12)		-1	12		0.300	-3.60		
	Ch: (90 - 175)		1	85		0.300	25.50		cc
	Ch: (175 - 390)		1	215		0.300	64.50		
	Deduction for Cross roads (258-250) = 8		-1	8		0.300	-2.40		
	Ch: (390 - 420)		1	30		0.300	9.00		
	Deduction for Cross roads (409-402) = 7		-1	7		0.300	-2.10		
	Ch: (420 - 450)		1	30		0.300	9.00		
	Ch: (450 - 480)		1	30		0.300	9.00		
	Ch: (480 - 510)		1	30		0.300	9.00		
	Deduction for Cross roads (501-494) = 7		-1	7		0.300	-2.10		
	Ch: (510 - 540)		1	30		0.300	9.00		
	Ch: (540 - 690)		1	150		0.300	45.00		
	Deduction for Cross roads (671-664) = 7		-1	7		0.300	-2.10		
	Ch: (690 - 720)		1	30		0.300	9.00		
	Ch: (720 - 780)		1	60		0.300	18.00		
	Ch: (780 - 885)		1	105		0.300	31.50		
	Deduction for Cross roads (836-829) = 7		-1	7		0.300	-2.10		
	16th b cross from bus Stop to 13th A main-RHS								
	Ch: (0 - 78)		1	78		0.300	23.40		
	Deduction for Cross roads (67-57)+(78-71) = 17)		-1	17		0.300	-5.10		
	Ch: (78 - 112)		1	34		0.300	10.20		
	Deduction for Cross roads (112-106) = 6		-1	6		0.300	-1.80		
	Ch: (112 - 251)		1	139		0.300	41.70		
	Deduction for Cross roads (251-242) = 9		-1	9		0.300	-2.70		
	Ch: (251 - 300)		1	49		0.300	14.70		

Sl. No	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amount in Rs
	Deuction for Cross roads (300-296) = 4		-1	4		0.300	-1.20		
	Ch: (300 - 324)		1	24		0.300	7.20		
	Deuction for Cross roads (324-321) = 3		-1	3		0.300	-0.90		
	Ch: (324 - 347)		1	23		0.300	6.90		
	Deuction for Cross roads (347-342) = 5		-1	5		0.300	-1.50		
	Ch: (347 - 371)		1	24		0.300	7.20		
	Deuction for Cross roads (371-368) = 3		-1	3		0.300	-0.90		
	Ch: (371 - 442)		1	71		0.300	21.30		
	Deuction for Cross roads (442-438) = 4		-1	4		0.300	-1.20		
	Ch: (442 - 464)		1	22		0.300	6.60		
							375.00	61.56	23085.00
	Sub Total								9174951.56
14	Cost towards Design Report and Detailed Estimate,PMC/Third party								91749.52
###	Miscellaneous and other charges								3298.92
	Grand Total								9270000.00

Certificate:-

1. That the workspot inspected by me and found work is necessary.
2. That the area comes with in the Bruhat Bangalore Mahanagara Palike Limits.
3. That the rates are adopted based on the PWD SR of 2015-16
4. That the provisions made in the estimate are necessary and quite essential.

Consultant:

For M/s MECADEZ CORE TECHNOLOGIES PVT LTD


Asst. Engineer
Ward No-08
BBMP


AEE
Yelhanka Sub Division
BBMP


Executive Engineer
Yelhanka Division
BBMP